AMENDMENTS TO THE CLAIMS

 (Currently amended) [[An]] <u>A method of forming an</u> electrolyte comprising an electrolyte composition and a matrix polymer, the method comprising;

wherein forming the matrix polymer is a polymer formed by polymerization of a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen, said polymerization being performed after a precursor for the matrix polymer is brought into contact with a surface on which the electrolyte is to be formed.

- (Currently amended) The electrolyte method according to Claim 1, wherein the electrolyte
 composition comprises a solvent to form a gel electrolyte.
- (Currently amended) The electrolyte method according to Claim 1, wherein the electrolyte
 composition comprises no solvent to form a solid electrolyte.
- (Currently amended) The electrolyte method according to Claim 1, wherein the electrolyte
 composition comprises an ionic liquid to form a gel electrolyte.
- (Currently amended) The electrolyte method according to Claim 1, wherein the electrolyte composition comprises a redox couple.
- (Currently amended) The electrolyte method according to Claim 5, wherein the redox couple is a combination of a halogen ion and a halide ion.
- (Currently amended) The electrolyte method according to Claim 6, wherein a halogen
 portion of the redox couple is iodine.
- 8. (Previously presented) A photocell comprising: a semiconductor layer composed of

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semiconductor particles carrying a dye and an electrolyte layer, the layers being provided between a counter electrode and an electrode formed on a surface of a substrate;

wherein the electrolyte layer has a redox couple, an electrolyte composition, and a matrix polymer; and

wherein the matrix polymer is a polymer formed by polymerization of a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen.

- (Original) The photocell according to Claim 8, wherein the substrate is a transparent substrate.
- 10. (Previously presented) A method for manufacturing a photocell comprising:

injecting a mixed solution between a counter electrode and an electrode formed on a surface of a substrate, the mixed solution containing a first compound having at least two isocyanate groups, a second compound having at least two nucleophilic groups containing active hydrogen, and an electrolyte composition having a redox couple; and

polymerizing the first compound and the second compound after the mixed solution is brought into contact with the electrode formed on the surface of the substrate.

- 11. (Previously presented) The method for manufacturing a photocell, according to Claim 10, further comprising forming a semiconductor layer, composed of semiconductor particles carrying a dye, between the electrode and the counter electrode.
- (Previously presented) The method for manufacturing a photocell, according to Claim 10, wherein the polymerizing is performed in accordance with a Michael addition reaction.
- 13. (Original) The method for manufacturing a photocell, according to Claim 10, wherein the electrolyte composition has a redox couple.

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14. (Previously presented) A method for manufacturing a photocell comprising:

forming a semiconductor layer composed of semiconductor particles carrying a dye between a counter electrode and an electrode formed on a surface of a substrate;

applying a first compound having at least two isocyanate groups and a second compound having at least two nucleophilic groups containing active hydrogen; and polymerizing the first compound and the second compound.